

1) Amendments to the Specification

Please replace paragraph [0023] with the following amended paragraph:

[0023] At a second end 22 of drill shaft 20 a drill bit 40, suitable for drilling a build up of deposits and encrustation of the same, is attached for coaxial rotation with drill shaft 20. An exemplary drill bit 40 is depicted in greater detail in FIG. 6 5. However, any drill bit suitable for boring built up deposits and encrustation of said deposits may be utilized with equally effective results. As depicted, a shank 41 of drill bit 40 is received within a chamber 25 defined internal drill shaft 20. Shank 41 is secured within chamber 25 via attachment means 46, which may include a set screw, a shear pin, or a threaded shank.

Please replace paragraph [0024] with the following amended paragraph:

[0024] Drill bit 40 preferably includes a pilot bit 42, to avoid drill bit 40 drift and undesirable contact of drill bit 40 with protective sleeve 17 during boring procedures. Pilot bit 42 will have a substantially smaller diameter than boring bit 43. Boring bit 43 is comprised of a plurality of fingers 44 radially extending from shank 41. Fingers 44 will have least one cutting surface 45 located thereon. Boring bit ~~33~~ 43 should have a diameter closely matching a diameter of protective sleeve 17.

Please replace paragraph [0025] with the following amended paragraph:

[0025] Referring again to FIGS 1 and 2, a portion of drill shaft 20 is received by a sleeve member 60 interposed between drill shaft first end 21 and drill bit 40. Sleeve member 60 is attached to an adapter housing ~~80~~ 90 proximal drill bit 40 for operative connection of the kiln cleaner 10 to kiln 12 via flange 15. Adapter housing ~~80~~ 90 provides alignment of drill shaft 20

relative access port 16, permitting extension of drill shaft 20 and concomitant drill bit 40 boring through deposits which may occlude access port 16 and protective sleeve 17.

Please replace paragraph [0031] with the following amended paragraph:

[0031] As may be seen in the drawings, a fluid jet 50 is attached at second end ~~24~~ 22 of drill shaft 20 proximal drill bit 40 and projecting laterally of drill shaft 20. Fluid jet 50 is in fluid communication with chamber 25, which receives the pressurized fluid source as described above. Fluid jet 50 imparts a desired flow pattern to the pressurized fluid source, which may then be directed to release deposits adhering to refractory lining 14. Since fluid jet 50 is in rotational engagement of with drill shaft 20, deposits may be removed from refractory lining 14 through a full 360 degrees of rotation around access port 16. The surface area radius of refractory lining 14 which may be cleared is dependent upon the effective blast radius of the pressurized fluid flow pattern developed by fluid jet 50.

Please replace paragraph [0032] with the following amended paragraph:

[0032] As is best seen in the detail drawing of FIG. 6 5, fluid jet 50 comprises a fluted venturi aperture 51 received in a first bore 27, extending from an outer surface 23 of drill shaft 20 to an inner surface 24 of drill shaft 20. Inner surface 24 defines chamber 25 internal drill shaft 20. Fluted venturi aperture 51 is depicted as a threaded insert, however, any suitable attachment means may be utilized to secure fluted venturi aperture 51 in first bore 27, including an interference fit or a weld. Fluted venturi aperture 51 comprises a flared inlet portion 52, a tapered outlet portion 53, and a constricted throat portion 54 intermediate flared inlet portion 52 and tapered outlet portion 53. Preferably, flared inlet portion 52 will have a greater inlet diameter than an outlet diameter of tapered outlet portion 53.

Please replace paragraph [0034] with the following amended paragraph:

[0034] As seen in the drawings, a linear actuator 80 is operatively connected between coupling unit 30 adapter housing 90. Linear actuator 80 permits selective extension and retraction of drill shaft 20 as seen by comparison of FIGS. 1 & 2 as well as FIGS. 3 & 4. Connection of a first end 81 of linear actuator 80 is provided by a first linear actuator boss 35 located on coupling 30. Attachment means ~~39~~ 83, such as pins or bolts, secure first end 81 to receiving point ~~38~~ 36. Connection of a second end 82 of linear actuator 80 is provided by a second linear actuator boss 91 located on adapter housing 90. Attachment means ~~97~~ 83, such as pins, bolts or screws secure second end 82 to a receiving point 98.